

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Immunometabolism, Metaflammation and Metabolic Disorders (D6)

April 14-18, 2019 • Fairmont Hotel Vancouver • Vancouver, British Columbia, Canada

Scientific Organizers: Gökhan S. Hotamisligil, Ruslan M. Medzhitov and Karine Clément

Supported by the Directors' Fund

Abstract & Scholarship Deadline: December 18, 2018 / Abstract Deadline: January 15, 2019 / Discounted Registration Deadline: February 12, 2019

SUNDAY, APRIL 14

Arrival and Registration

MONDAY, APRIL 15

Welcome and Keynote Address

Gary B. Ruvkun, Massachusetts General Hospital, Harvard Medical School, USA
C. elegans Surveillance of Conserved Cellular Components to Detect and Defend Pathogen Attacks, Real or Imagined

Immunometabolic Framework in Model Organisms

Pierre Léopold, University of Nice, France
Nutrient Sensing and Growth in Drosophila

Heinrich Jasper, Buck Institute for Research on Aging, USA
Stress Signaling and Longevity

Antje Körner, University Children's Hospital Leipzig, Germany
Exploring Factors for Adipocyte Development and Adaptation in Human and Zebrafish

Short Talk(s) Chosen from Abstracts

Workshop: Immuno-inflammation and the Gut

Short Talks Chosen from Abstracts

Components of Immunometabolic Interactions

Anna Mae Diehl, Duke University Medical Center, USA
Immune Regulation of Liver Function and Response to Injury

Ajay Chawla, University of California, San Francisco, USA
Tissue Resident Macrophages in Metabolic Disease

Michael P. Czech, University of Massachusetts Medical School, USA
Immune Interactions that Drive Adipocyte Form and Function

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, APRIL 16

Immunometabolic Positioning of Innate versus Adaptive Immune Cells

Agnès C. Lehuen, Institut Cochin, France
MAIT Cells at the Crossroad of Microbiota, Inflammation and Diabetes

Barbara S. Nikolajczyk, University of Kentucky College of Medicine, USA
Changes in Immune Cell Metabolism Promote Metainflammation in Type 2 Diabetes

Hans-Michael Dosch, Hospital for Sick Children, Canada
TRPV1-based Disease Reversal in Type 1 Diabetes Patients

Diane Mathis, Harvard Medical School, USA
Adipose Tissue T-Regulatory Cells

Short Talk(s) Chosen from Abstracts

Signaling Networks Regulating Immunometabolic Responses

Ruslan Medzhitov, HHMI/Yale University School of Medicine, USA
Interfacing Immune Response and Metabolism

Roger J. Davis, HHMI/University of Massachusetts Medical School, USA
Stress Signaling Pathways in Immunometabolism

Vishwa Deep Dixit, Yale University, USA
Aging and the Metabolic Inflammasome

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, APRIL 17

Organelle Dynamics and Function in Immunometabolism

Gökhan S. Hotamisligil, Harvard University, USA
Endoplasmic Reticulum and Immunometabolic Responses

Speaker to be Announced

Shawn C. Burgess, University of Texas Southwestern Medical Center, USA
Mitochondrial Metabolism in Fatty Liver Disease

Ling Yang, University of Iowa, USA
Autophagic Regulation in Obesity

Short Talk(s) Chosen from Abstracts

Nutrients and Metabolites Critical for Immunometabolic Responses

Barbara B. Kahn, Beth Israel Deaconess Medical Center, Harvard Medical School, USA
Immunometabolic Regulation by Novel Lipid Species

Christopher K. Glass, University of California, San Diego, USA
Nature and Nurture of Microglia Identity and Function

Tony K.T. Lam, Toronto General Research Institute, Canada
Nutrient Sensing in the Gut

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, APRIL 18

Translation of Immunometabolism

Marc Y. Donath, University Hospital Basel, Switzerland
Targeting Inflammation in Metabolic Disease

Naveed Sattar†, University of Glasgow, Scotland
Metabolic and Cardiovascular effects of TNF Neutralization

Elif A. Oral, University of Michigan, USA
New Anti Inflammatory Interventions in Obesity and Insulin Resistance

Short Talk(s) Chosen from Abstracts

Immunometabolic Links in Human Studies

Karine Clément, INSERM/Sorbonne Université, France
The Role of Microbiota in Human Metabolic Disease

Gerald I. Shulman, HHMI/Yale University School of Medicine, USA
Mitochondrial Regulation of Hepatic Lipid Metabolism in Man: Implications for NAFLD/NASH and Type 2 Diabetes

Elizabeth K. Speliotes, University of Michigan, USA
Human Genetics of Body Weight

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Evan D. Rosen, Beth Israel Deaconess Medical Center, Harvard University, USA

Transcriptional and Epigenetic Control of Metabolism

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

FRIDAY, APRIL 19

Departure